CLAIMS

An image capturing device comprising:

a housing;

an optoelectric transducer disposed in said housing, arranged to accept an optical input via a light transmissive opening through said housing, and to convert said optical input to an electrical signal;

an image processor disposed within said housing and electrically coupled to said optoelectric transducer;

a handheld computing device disposed within said housing, coupled to said image processor, and including:

a microprocessor,

memory coupled to said microprocessor,

a user interface,

an external computer interface, and

a display;

wherein said display, when switched from displaying computing device information, displays an image regenerated at least in part by said microprocessor from said electrical signal; and

wherein said user interface further comprises at least one electromechanical activator, when switched from accepting computing device instruction, adapted to accept a user instruction to save said electrical signal as a stored image representation.

2. An image capturing device in accordance with claim 1 wherein said user interface further comprises at least one electromechanical activator, when switched from accepting computing device instruction, adapted to accept a user instruction to couple a second electrical signal representative of said stored image representation to said external computer interface of said handheld computing device.

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- 3. An image capturing device in accordance with claim 1 wherein said memory includes a computing device stored document and wherein said display further comprises a tactile input display adapted to accept a user input to associate said stored image representation with said stored document.
 - 4. An image capturing device comprising: a housing;

an optoelectric transducer disposed in said housing, arranged to accept an optical input via a light transmissive opening through said housing, and to convert said optical input to an electrical signal;

an image processor disposed within said housing and electrically coupled to said optoelectric transducer;

a memory coupled to said image processor:

a user interface; and

an integral interface connector coupled to said image processor and adapted to be coupled to an external computer without an intervening cable.

- 5. An image capturing device in accordance with claim 4 wherein said user interface further comprises at least one electromechanical activator adapted to accept both a user instruction to turn the image capturing device on and to save said electrical signal as a stored image representation.
- 6. An image capturing device in accordance with claim 5 wherein said at least one electromechanical activator further comprises an electromechanical activator recessed below an external surface of said housing.
 - 7. An image capturing device in accordance with claim 5 wherein said user interface further comprises a second electromechanical activator adapted to accept both a user instruction to review said stored image representation and to turn the image capturing device off.

8. An image capturing device in accordance with claim 7 wherein said second electromechanical activator is further adapted to accept a momentary user instruction to review said stored image representation and to accept a continuous user instruction to turn the image capturing device off.

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9. An image capturing device in accordance with claim 5 wherein said user interface further comprises a third electromechanical activator adapted to accept a user instruction to delete said stored image representation.

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10. A method of capturing and integrating an image in a combined handheld computing and image capture device comprising the steps of: determining a function of at least one electromechanical actuator; launching an application program from a memory in the device, said application program unrelated to image capture;

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repurposing said at least one electromechanical actuator from said determined function to a shutter actuator function;

exposing an optoelectric transducer disposed in a housing of the device to light input via a light transmissive opening through said housing;

converting said light into an electrical signal;

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upon actuation of said repurposed at least one electromechanical actuator, processing and storing said electrical signal as an image representation in said memory; and

recalling said image representation for use in said launched application program.

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11. A method in accordance with the method of claim 10 further comprising the steps of pasting at least a portion of said recalled image into a document of said launched application program and recalling said image representation for presentation on a display of the device.

12. A method of capturing and integrating an image in an image capture device comprising the steps of:

turning the image capture device on in response to a user's activation of a first electromechanical actuator;

exposing an optoelectric transducer disposed in a housing of the device to light input via a light transmissive opening through said housing;

converting said light into an electrical signal;

accepting a user instruction to said first electromechanical actuator to save said electrical signal as a stored image representation; and

recalling said image representation.

13. A method in accordance with the method of claim 12 further comprising the step of accepting a user instruction to said second electromechanical activator to review said stored image representation.

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14. A method in accordance with the method of claim 13 further comprising the step of accepting a user instruction to said second electromechanical activator to turn the image capturing device off.

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15. A method in accordance with the method of claim 14 wherein said steps of accepting a user instruction to said second electromechanical activator to review said stored image representation and accepting a user instruction to said second electromechanical activator to turn the image capturing device off further comprises the steps of accepting a momentary user instruction to said second electromechanical activator to review said stored image representation and accepting a continuous user instruction to turn the image capturing device off.

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16. A method in accordance with the method of claim 12 further comprising the step of accepting a user instruction to a third electromechanical activator to delete said stored image representation.